



MEMBER	No OF	BARS PER MEMB	DIA.	LENGTH	TOTAL NUM-BER	MARK	S C	B E N D I N G				
								A	B	C	D	E/r
ROOF SLAB	1	52	Y12	8900	52	A	35	8700	(800)	(800)		
	1	81	Y12	5300	81	B	37	5300	(100)	(100)		
	1	52	Y12	8900	52	C	35	8700	(600)	(600)		
	1	81	Y12	5650	81	D	55	600	(180)	(180)	(180)	600
STOOLS	1	89	Y12	950	89	F1	83	300	200	160	200	
STARTER BARS		412	Y16	1450	412	G	37	250	1250			
CHAMBER BASE	2	94	Y16	7200	188	H	35	7000	(100)	(100)		
	2	64	Y16	10400	128	J	35	10200	(100)	(100)		
	2	3	Y16	8300	6	K	35	8050	(100)	(100)		
	2	3	Y16	5200	6	H1	35	4950	(100)	(100)		
STOOLS	2	3	Y16	1700	6	J1	35	1450		(100)		
	2	3	Y16	10900	6	K1	35	10700	(100)	(100)		
	1	138	Y12	900	138	L	63	250	150	200	150	
	2	8	Y12	1000	16	F	20	1000				
CHAMBER WALL	8	15	Y12	8750	120	M	35	8550	(100)	(100)		
	4	15	Y12	5100	60	N	35	4850	(100)	(100)		
	4	24	Y16	2850	96	P	37	2800	(100)			
	1	168	Y16	400	18	Q	35	200	(250)	(200)		
CHAMBER SUMP	2	7	Y12	2650	14	R	38	800	1100	800		
	2	5	Y12	1850	10	S	38	600	700	600		
	4	2	Y12	1550	8	T	38	100	1400	100		
	4	2	Y12	850	8	U	38	100	700	100		
PLINTH (PIPE SUPPORT)	18	7	Y12	1500	126	V	54	250	850	(100)		
	16	4	Y12	2200	72	W	55	150	300	1400		
	18	2	Y12	450	36	X	38	100	320	(100)	300	150
PIPE OPENING	3	8	Y12	1400	6	Y	20	1400				
	8	10	12	16	20	25	32	40	TOT			
R									CHAMBER 12			
Y		41	3516	7306				10864				
TOT		41	3516	7306				10864				

Engineer:

TECHNO DESIGNS

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THESE NOTES SERVE AS AN ADDENDUM TO THE SPECIFICATION IN THE BILL OF QUANTITIES (BOQ). IN THOSE CASES WHERE THE BOQ SPECIFICATIONS DIFFER FROM THESE NOTES, THESE NOTES SHALL TAKE PRECEDENCE ON ORIGINAL.

Engineer:

T.Chikwata Pr Eng (20140009)

Drawn By:

Designed By:

Checked By:

P.Mlambo

T.Chikwata

T.Chikwata

Signature:

Date:

S. Chikwata

Sept 2023

Signature:

Date:

T.Chikwata

Sept 2023

CONCRETE NOTES:

1.0 SETTING OUT AND GENERAL:
1.1 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.
1.2 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.
1.3 REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER.
1.4 THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS SOUGHT.
1.5 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECT'S DRAWINGS.
1.6 STRUCTURAL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.N.S SPECIFICATIONS. ALL CONCRETE WORK IS TO BE DONE IN ACCORDANCE WITH S.A.N.S 12000 AND EARTHWORKS IN ACCORDANCE WITH S.A.N.S 12000.
1.8 CONSULT RELEVANT ARCHITECT'S, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER OUTLETS, R/WOPS AND HOLES AND SLEEVES FOR THESE SERVICES. NO HOLES ARE TO BE CORED WITHOUT ENGINEERS WRITTEN APPROVAL.
2.0 FOUNDATIONS:
2.1 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.
2.2 NO FOUNDATIONS ARE TO BE CAST IN FILL MATERIAL. A 50mm THICK LAYER OF 10MPa / 19mm BLINDING CONCRETE IS TO BE CAST UNDER ALL REINFORCED BASES, REINFORCED STRIP FOOTINGS AND GROUND BEAMS.
2.3 ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa / 19mm CONCRETE AT THE CONTRACTOR'S EXPENSE.
2.4 BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
2.5 ALLOWABLE BEARING PRESSURE UNDER:
CONCRETE BASES = 250kPa
STRIP FOOTINGS = 100kPa
3.0 CONCRETE
3.1 CONCRETE CHARACTERISTIC 28 DAY STRENGTH:
BASES: 30MPa / 19mm
STRIP FOOTINGS: 25MPa / 19mm
SURFACE BEDS: 30MPa / 19mm
SUSPENDED SLABS & BEAMS: 30MPa / 19mm
3.2 CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE GIVEN TO ENGINEER FOR PERUSAL AND COMMENT. CONCRETE MIX DESIGNS FOR SURFACE BEDS TO HAVE MINIMUM BLEED CHARACTERISTICS.
3.3 ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING.
4.0 ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N.S 12000 PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II UNLESS SPECIFIED OTHERWISE.
4.1 CONCRETE CUBE TEST RESULTS TO BE SUBMITTED TIMEOUSLY TO ENGINEER FOR PERUSAL, RECORDS, COMMENT AND APPROVAL.
4.2 REINFORCEMENT CHARACTERISTIC STRENGTH:
MILD STEEL: 250N/mm2
HIGH YIELD STEEL: 450N/mm2
4.3 ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY ENGINEER BEFORE ANY CONCRETE IS CAST. 48 HOURS WRITTEN NOTICE TO BE GIVEN TO ENGINEER BEFORE TIME OF INSPECTION.
4.4 LAP LENGTH TO REINFORCING TO BE MINIMUM 50 x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.
4.5 MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB (TOP) MINIMUM LAPS = 300mm UNLESS OTHERWISE NOTED.
4.6 THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO SITE FOR INSPECTION OF THE REINFORCEMENT.
4.7 COVER TO REINFORCEMENT:
STRIP FOOTINGS: 50mm
BASES: 50mm
COLUMNS AND WALLS: 30mm
SUSPENDED SLABS: 30mm
5.0 SUSPENDED BEAMS: 30mm
5.1 CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.
5.2 FORMWORK AND PROPPING
5.3 STRIPPING TIMES FOR:
COLUMN AND WALL SHUTTERING: 1.5 DAYS
7 DAYS IN HOT WEATHER.
12 DAYS IN COLD WEATHER.
BEAM SHUTTERING: 7 DAYS IN HOT WEATHER.
7 DAYS IN COLD WEATHER.
5.4 FLAT SLABS:
5.5 PROPPING TIMES FOR:
SLABS AND BEAMS: 14 DAYS IN HOT WEATHER
21 DAYS IN COLD WEATHER
5.6 CANTILEVER SLABS AND BEAMS: 21 DAYS
(SUBJECT TO CUBE TEST RESULTS BEING SUBMITTED TIMEOUSLY TO ENGINEER FOR APPROVAL)
5.7 NO DE-PROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER.
5.8 CONCRETE FINISHES, UNLESS NOTED OTHERWISE
COLUMNS AND WALLS: OFF SHUTTER
BEAMS AND SLAB SOFFIT: OFF SHUTTER
5.9 TOP OF SUSPENDED SLABS: STEEL FLOAT
SURFACE BEDS: POWER FLOAT
5.10 SIDES OF GROUND BEAMS TO BE SHUTTERED.

Refer To Drawing No:

Key Plan:

No	Date	Details	Chd	Appd
		Revisions		

Project:

JW14406 - LINBRO PARK TOWER (WITH ASSOCIATED WORKS)

Description:

CHAMBER 12 RETAINING WALL AND ROOF REBAR LAYOUTS

Issued For:

TENDER

Size:

Scale:

Sheet No:

Original Date:

A1

As Shown

5 OF 6

SEPT 2022

Project No:

Drawing No:

Revision:

C01486

PS-07

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